SFUND RECORDS CTR
88172056

CITY OF MOUNTAIN VIEW

SFUND RECORDS CTR
2807-91885

Application for Industrial Wastes Discharge Permit

Date _____ No. 016-7-79

A. Name of Organization Fairchild Semiconductor, A Division of Fairchild Camera and Instrument Corporation, 464 Ellis St., Mt. View, Calif. 94042
Address of Point of Discharge 644 National Ave., Mt. View, Bldg. 18
Individual Responsible for industrial waste — Name Bernard Yurash — Telephone (415) 962-2346
Signature Bernard Yurash
Attach Map Showing Point of Discharge, Sampling Points, and Waste Treatment Facility.

B. Flow Rate: Average 287,000 gals/day Max. 287,000 gals/day Peak Hourly 200 GPM

C. Submit separate statement:
1. Detailing type of industry and nature of products
2. Listing chemicals used and approximate concentrations
3. Describing waste treatment facilities
4. Giving characteristics of exceptional industrial wastes
5. Concerning radioactive wastes
6. Naming organic solvents discharged and concentration at point of discharge

D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.

Biochemical oxygen demand (B.O.D.)	50 mg/l	Grease and oil, total	0 mg/l
Chemical oxygen demand (C.O.D.)	100 mg/l	Hydrogen ion content pH	5.5 to 10.0
Total Solids, Average	400 mg/l	Fluoride	1.5 mg/l
Suspended Solids, Average	200 mg/l	Chlorine demand	5 mg/l
Temperature	60 °F		

	Max. Conc. Allowable mg/l	Allowable Mass Emission Rate kg/day		Max. Conc. Allowable mg/l	Allowable Mass Emission Rate kg/day
Arsenic	0.1	0.01	Formaldehyde	5.0	0.5
Barium	5.0	0.5	Lead	0.5	0.05
Beryllium	1.0	0.1	Manganese	1.0	0.1
Boron	1.0	0.1	Mercury	0.05	0.005
Chlorine	50.0	5.0	Nickel	1.0	0.1
Cadmium	0.1	0.01	Chloroform	50.0	5.0
Chromium Hexavalent	1.0	0.1	Phenols	1.0	0.1
Chromium Total	2.0	0.2	Selenium	2.0	0.2
Cobalt	1.0	0.1	Silver	5.0	0.5
Copper	1.0	0.1	Zinc	5.0	0.5
Cresols	2.0	0.2			
Cyanides	1.0	0.1			

NOT TO BE COMPLETED BY APPLICANT

Permit to Discharge Industrial Wastes in Accordance with This Application Approved Subject to Attached General and Specific Conditions
Allen Shelley, Director of Public Works
Signature Allen Shelley Date April 13, 1976

Permit to Discharge Exceptional Industrial Waste Approved
List Details:

Allen Shelley, Director of Public Works
Signature _____ Date _____

DISTRIBUTION: Original to Industrial Waste File, Copy to Discharger, Copy to Water Quality Control Plant, Copy to Palo Alto, Copy to Sewer Division.

(PW-23)

CITY OF MOUNTAIN VIEW

Industrial Waste Discharge Permit

DATE: April 13, 1976 NO. 016-7-79

NAME OF ORGANIZATION: Fairchild Semiconductor

ADDRESS: 464 Ellis Street

GENERAL CONDITIONS

1. This permit is issued under the ordinances and regulations of the City of Mountain View currently in effect, but all discharges hereunder shall comply with all ordinances and regulations of the City and all other applicable local, state, and federal regulations, whether now in effect or hereafter adopted or amended.

2. Any violation of the terms of this Permit or the ordinances or regulations of the City shall be grounds for revocation.

3. If any proposed revisions in plant operations are expected to cause significant changes in waste water quality or quantity (25 percent or more, or 25,000 gallons per day) from that given in approved Permit information, an application for an amended permit must be submitted for approval detailing the nature of the changes.

4. In accordance with Section 35.32.8 of the City Code, accidental discharges of industrial wastes shall be reported immediately to the Public Works Department, telephone number 967-7211, Ext. 270, during normal office hours, or to the Fire Department, telephone number 968-4415, on holidays or after normal office hours AND to the Palo Alto Regional Water Quality Control Plant, telephone number 329-2598 so that appropriate countermeasures may be taken.

5. This Permit is not transferable without prior written consent of the Director of Public Works. In general, a change of ownership will require a new permit.

6. The issuance of this permit does not constitute a warranty that the design capacity of the sewage collection and treatment system is sufficient to accommodate peak sewage flows from all dischargers who may now or hereafter be connected to the system. Pursuant to Sec. 35.32.1(d) the City reserves the right to impose restrictions on sewage discharges where necessary in the judgment of the City to assure the proper functioning in the sewerage system.

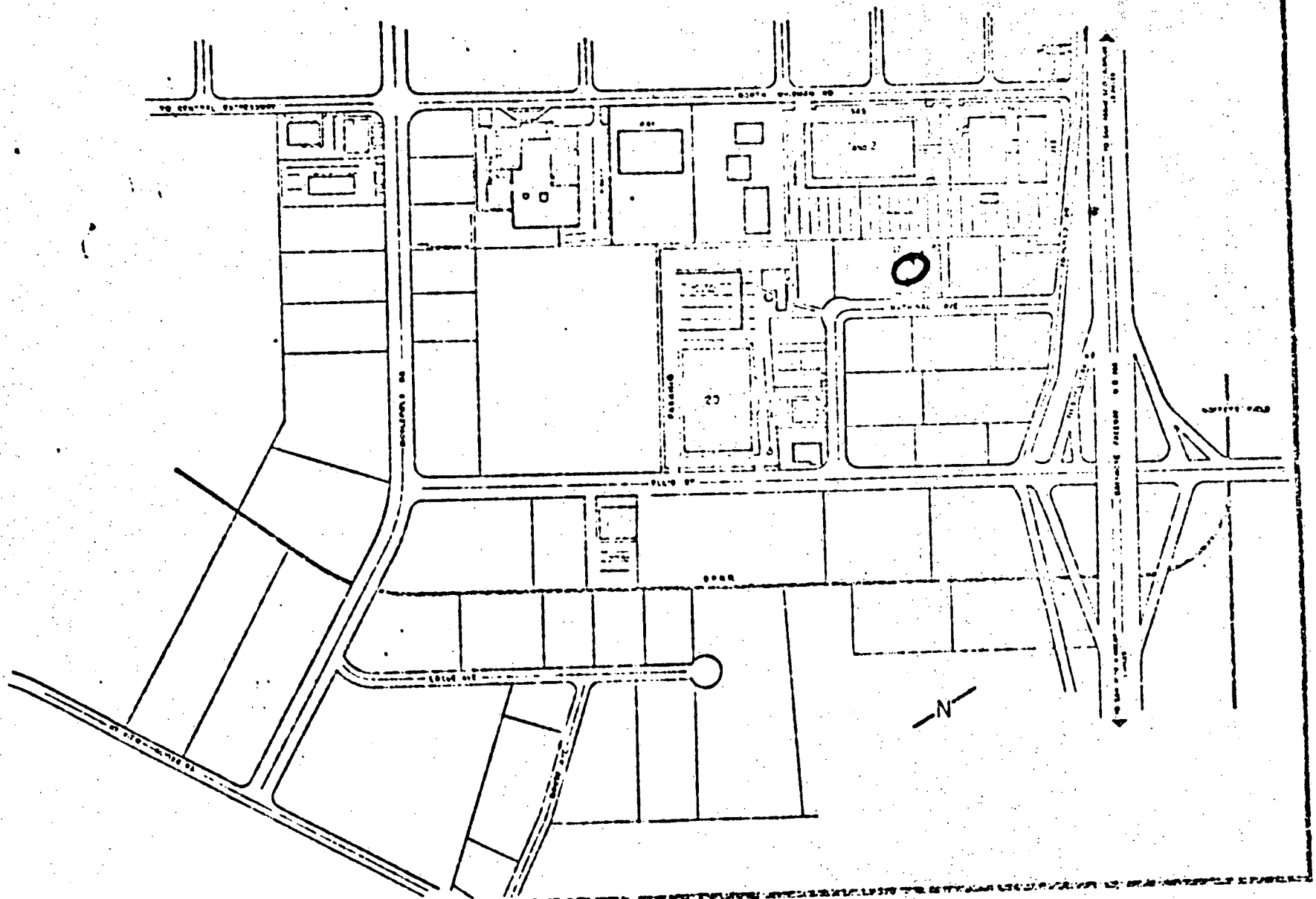
SPECIFIC CONDITIONS

1. This permit is for a period ending on July 1, 1977 but shall be automatically renewed for up to four (4) additional successive one-year periods unless the City shall give written notice of nonrenewal at least thirty (30) days prior to the annual renewal date.

2. This permit applies to industrial waste discharges at the following location(s) only:

   Building 18 - 644 National Avenue

3. Your attention is called to the fact that flow rates shown on the permit application exceed per-acre design flows of the sewers serving the above locations. Restrictions or additional charges may be imposed in accordance with Sec. 35.32.1(d) of the City Code should peak sewage flows from the total upstream acreage approach the capacity of these sewers.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APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT, ITEM C.

1. Type of Industry and Nature of Products

Fairchild Semiconductor processes silicon metal into electronic semiconductor devices.

2. Chemicals used in semiconductor device processing are:

Gases	Liquids	Liquids
Nitrogen	Sulfuric acid	Methanol
Hydrogen	Nitric acid	Isopropanol
Oxygen	Hydrofluoric acid	Methylene chloride
Argon	Hydrochloric acid	Trichloroethane
Hydrogen chloride	Acetic acid	Detergents
Chlorine	Phosphoric acid	Aluminum sulfate
Compressed air	Ammonium fluoride	Sodium carbonate
Ammonia	Ammonium hydroxide	Sodium hydroxide
	Acetone	Freon
		Glycerin
		Xylene

3. Waste treatment facilities

Neutralization of acids is provided by injection of ammonia into mixing tanks with continuous monitoring and control. Fluoride solutions are captured and disposed of separately, not into the city sewer.

In Building No. 18 a cyanide destruction system operates to destroy and convert cyanides to nitrogen and carbon dioxide. The final effluent is neutralized to a pH between 6 and 9.

Characteristics of exceptional industrial wastes. None.

5. No radioactive wastes are discharged.

6. Organic solvents are captured for storage and recycling.